Wm W Gerhard
W W G
Wood St

Sold by Joseph G. Auner, No. 333, Market-street.

Podophyllum

Wm W Gerhard. 1827. May 22nd.

LECTURES.

on —

Materia Medica & Pharmacy —

by —

George B Wood. M. D. —

Summer of 1827 —

Notes taken by

William W Gerhard
Philadelphia

April 29th. 1827 —

+ without reference / quantity of matter, or nauseous taste

Emetics.

Such medicines as excite vomiting. They irritate the the stomach, & draw the irritation from other parts.

Emetics answer several indications.

1st. They evacuate the stomach; apoplexy is sometimes produced by an overloaded stomach; Urticaria I have seen produced by the same cause but relieved by emetics. Spasms of stomach from ill-digested food are often relieved by full vomiting. If narcotics be swallowed, or bile accumulated in the stomach emetics should be given.

2. By the pressure on the viscera, caused by vomiting good effects are often produced: ~~Cholera~~ Jaundice is generally owing not to accumulation of bile but want of secretion, hence relieved by the pressure on the liver.

3—. By sympathy they relax the skin & produce diaphoresis.

4. By the general muscular relaxation they cause surgeons often are able to reduce dislocations.

5. Emetics increase the power of the absorbents.

6th. Emetics often act as cathartics especially in

small doses.

7. In smaller doses they are among the best diaphoretics.

8. In still ~~smaller~~ they are expectorants; hence used in catarrh.

9. By their powerful impression they break the chain of morbid action: hence in fevers they should be given just before the expected paroxysm.

Several cautions are necessary in the administration of emetics: they should not be given when there is much determination to the head, nor in advanced pregnancy, nor where hernia exists.

Emetics should either be dissolved or diffused in water; & shd be given in divided doses. If our object be to evacuate yl stomach, warm water or chamomile tea should be given; if to produce a powerful commotion no drink should be allowed. Immoderate vomiting may be checked by laudanum, inspirations & spiced plasters to the stomach.

Ipecacuanha. The name is common to all emetic roots in S. America; two kinds are imported, one from Brazil called Caincca or Cephaelis, wrinkled & of of brown or grey colour, bitter taste, &

disagreeable smell. Another kind is woody & whout wrinkles. In the shops they are called, Brown, Grey & white Ipecacuanha. The woody fibre is surrounded by the bark in which its virtues reside. By exposure to air & light it undergoes a chemical change. It is often adulterated. Alcohol dissolves 4 parts in 20, boiling water 8 pts. Lime is the usual solvent in pharmacy. Decoction injures it. All astringents, vegetable acids &c are incompatibles. Its virtues reside in Emetin, a peculiar vegetable alkali. It may be obtained in transparent brownish red scales; violent vomiting is excited by 1/2 gr of emetin; supposed to be a salt. The brown contains 16 per cent, the grey 14, & white 5. Introduced in 1686 into practice. It is a mild & certain emetic not extending its action or producing violent catharsis. Dose gr XV to XXX. In large doses does not produce a proportionate effect. Excellent to avoid narcotics. Tart Ant: may be added w advantage; gr iv j. Ipecacuan is employed in many diseases, as dysentery &c. Opium, Ipecac, & calomel may be often united.

In mul doses Ipecac is expectorant, particularly in hooping cough & asthma. In mul & repeated doses suppresses haemorrhage, particularly uterine.

O. P. Dovers – opium grj, Ipecac grj – Sulp Potash gr viij, for the latter nit Potash sometimes substituted – diaphoretic – Dose gr x.

Vinum Ipecacuanhae – Dose fzij – fzfs. (dysentery

Spiraea Trifoliata. Indian Physic found in U S – shd be collected in September, root has long branches; in med virtues resembles Ipecac – some say it is uncertain. By some called in Gillenia. Virtue chfly in cortex root. Dose gr xxx.

Euphorbia Ipecacuanha – Native in U S. Root yellow & tuberculated. Dose gr xv; if larger it is dangerous. —

Scilla Maritima – Squill is emetic in doses in 6 or 8 grs, rarely given, in acetum Scillae a tea spoonful –

Nicotiana Tabacum. Tobacco is emetic but dangerous, sometimes applied as a

= Friday 5 o'clock P.M. May 11th 1827 —

cataplasm to the Epigastrium.

Anthemis Nobilis. Chamomile in infusion is sometimes given.

Sem: Sinapis: in dose \ ʒj emetic & useful in some cases: particularly where there is great depression. —

⇒ Mineral Emetics.

Antimony the chief - not enter into chem - details.

Sulphuret of Antimony - fnd abundant - not - prep - by levigation for medicine seldom employed. Dose gr XV to ʒj -

Sulphuretum ant - precipitatum. boil Potash w/ levigat - Sulp Antimony & add acid Sulphuric -; (oxide \ antimony Sulphuret & Sulphur hydrog) -

Hermes mineral - take liquor add Sulphuric - golden sulphur is precipitated - Dose gr 8 or 10 - of either - \ w/ calomel emetic & actively cathartic.

James powder is composed \ oxide \ antimony w/ phosphate \ lime - - sulphuret

antimony & horse shoeing in equal proportions & heated in red pot, till greg powder - & then it is intensely heated in a crucible - Dose gr V to X acts as a diaphoretic & cathartic, & often vomits. Not much used in this country -

Tartarized Antimony - boil cream of Tartar with oxide of antimony - filter & crystallize - tri-hedral pyramids - shd be given in solution & divided doses - 2 or 3 grains generally sufficient - Antimonial wine - ℞ gr - of Tart Ant, to the ℥j. Dose f ℥ss generally sufficient, often given to children - ℥j dose for child - 2 or 3 yrs. Hedge

Glass of Antimony.

oxide of antimony, vitrified by heat. uncertain - in proportion to acid in wine. of infusions not ~~mix~~ incomp - Tartar emetic decomposed by ~~metallic~~ mineral acids, & alkalies soaps &c - bitter & astringent decoctions are incompatible, Rhubarb also. Emetic Tartar universally prescribed in N. S. -

Tart. emt: is certain strong & permanent - remains longer than Ipecac - & produces a more powerful impression - hence to give a shock it's better - hence in Jaundice &c - produces more sickness than Ipecac - hence in dislocations better - when to act promptly Ipecac may be added - it purges frequently - & proves benefiting Some combine wh others. As a diaphoretic used in all febrile disease in dose 1/8 to 1/4 gr. in too sml doses to meet skin - excitement. Nausea is not essential to antifebrile operation. but doses expectorant also diuretic. Like calomel stimulates all secretions. excite a peculiar eruption externally applied.

Sulphate of Zinc.

Diluted Sulphuric acid on Zinc. filter & crystallize, very soluble in water, on exposure, efflorece. decomposed by alkalies - earths &c - when in too gr quantities - an alkali may be given. Operates speedily without much nausea - superseded by Ipecac

but sometimes used - dose gr viij or x -

Sulphate of Copper -

Found in nature near mines, & pyrites exist. Solution & chrystallization, deep blue colour - acrid styptic taste. Very speedy emetic, where opium taken may be used as an emetic. Dose gr ij or iij - of opium. ii or v - In large dose violent vomit - hiccup - cold extremities convulsions & death. White & eggs best remedy - sugar also -

Acetate of copper -

Never used

Sub - Sulphate & Mercury -

Not used at present. Dose gr v -

Cathartics. Καθαιρω

Those that evacuate the bowels. Several theories proposed - may stimulate the intestines or the exhalents of the intestines may be stimulated bilous & pancreatic fluids increase motion

intestines hence their motion be increased. Bile flange — some cath — act on different parts gamboge on stomach, aloes to rectum &c —
Some suppose it owing to their different solubility. The nature of the stools varies. Laxatives are the milder, the more active are purgatives.
By combination their powers are materially modified. Cathartics answer several indications. 1st they evacuate the bowels — in piles colic dyspepsia &c &c, acid matter is thus carried off — frequently produced by previous disease, & impede cure, hence in fevers typhus fever &c Scrofula, Mania, Marasmus also. The beneficial operation not confined to alvine evacuation, break morbid association, correct state of vessels &c
If poisons gone too far cathartics demanded.
2nd. reduction of general excitement, bleeding from intestines, ~~how~~ 3rd stimulate absorbents we cannot know — in dropsy hence hydragogues used — also in diffusion. 4th revulsion nervous action directed to this part, hence purging

of benefit, when a determination to head exists; also in other parts. 5th. Cathartics act especially on liver & remove congestion \ vena portarum.

Mode \ administering; addition \ nul quant \ emetics frequently promote the action \ cathartics, bitters do the same, carbonic acid promotes operation. Senna gripes & hence we wish to correct its bad properties. Patients should be given on an empty stomach, best in morning, exercise promotes the operation, diluent drink, when too powerful 10 or 15 gt Laudanum may given, or proportion injected.

Vegetable Cathartics

℞ Saccharum — operates on bowels, very mild hence may be given in costiveness. Rye mash & molasses excellent to keep content opening in bowels. Sugar chiefly used to disguise remedies.

Manna — ℞ fraxinus ornus ash, in summer exudes spontaneously, flake manna

best, inferior flows from incisions; when chemically examines yield peculiar mgers — soluble in alcohol & water, feeble cathartic, combined with Senna dose ℥j or more.

Tamarind & sub acid fruits; Prune & fig possess a considerable cathartic power. The tamarind also a laxative. may be added to other cathartics.

C Cassia Fistula. pulp of pod — rarely used except in composition.

Ricinus Communis; E & W Indies, Africa & America, annual & quick growth, clusters seeds, resembling Ricinus, purge violently. Castor oil, or Oleum Castus, Some say known to greek. decoction & expression, first is bad, pressure applied & oil forced out, cold pressed is best, thick viscid transparent, the boiled is brownish hue; gentle laxative but certain, not much griping, generally speedy. Excellent lining membrane inflamed hence in dysentery colic. also in convalescence from acute diseases. In obstinate constipation

Friday. May. 18th 1827. — — —

X. water at 212° takes up 24 parts in 60; alcohol 2.7 from 10.

uncertain, useful in infantile diseases, Dose ℥j, for ~~a~~ infant ℥j. should be given warm-coffee. may be given in emulsion. ℥j castor ℥ij Gum Acac, ℥j Sacch, ℥ij cinna water.

Oleum Olivae — cathartic properties like castor oil Dose ℥j — Melted butter also laxative — Dose ℥ß a ℥j.

Rheum Palmatum, Turkey; & China in small round pieces perforated, lu yellow colour streaked w/ white inter — yellow powder & gum resin, extractive, tannin, gallic acid & chemical ingredient, sulphate or alate lime in white sticks. Chinese, some say is from R Undulatum, more nauseous taste & longer smell not so aromatic, fewer sticks, redder powder, longer pieces; sometimes sold for Russia Rhubarb. Best has its odour strong. Infusion & boil-water extracts its virtues, in R-tea an aromatic shd be added. Decoction destroys its power. Alcohol 90 per cent. Cathartic & astringent, also tonic & stomachic, does not produce co-

x Rhubarb acts principally on the stomach & small intestines. 2. as a tonic gr vj ~~to~~ x.

3. Hepatic called from its resemblance in its colour to the liver. (ἧπαρ).

x serous watery discharges. In dyspepsia sub used, best when combined: in commence - \ diarrhoea R is best remedy, In summer comp - \ children grad. In dysentery, generally preferable. In typhus best purgative. Bad \ inflammatory complaints, best in bilious fev - may be comb - sub calomel & Dose XX gr - XXX - as a lax gr viij or X. Some roast it, its purgative principle is destroyed, but not the prin. Of: Prep - Tinctura Rhei, proof sp Rhubarb & cardam, Tr Rhei comp - Saffron to be added, ʒss to ʒj - or ʒj to ʒij as a stomachic Warners Cordial, Rhubarb Senna, saffron raisins, powdered liquorice Safr - in brandy. Dose as others. Syrup of Rhubarb. Syrup \ Rhubarb & Senna; & aromatic syrup \ Rhubarb, used sub in summer diseases \ children. Cloves, nutmegs &c are added. - Dose \ infant \ ½ year. a tea - spoonful. Operates also on urine in colour.

Aloes. - Socotarine, from A. Spicata; 3 Hepatic from A. Vulgaris & Caballina, from Vulgaris. Concrete

Some say Aloes is a substance sui generis. 1

2) Slightly bitter sweetish & nauseous taste. Some say the griping quality of Senna is owing to the presence of other plants.

resinous juice, 1st kind is best, but from Cape of Good Hope, & Island of Socotora, the latter not but here. Hepatic is most abundant, from Barbadoes, & Bombay. In large brown masses strong smell & intensely bitter taste. Caballine only by pennies. Extract — resin & gum. Alcohol oil — is best solvent but water dissolves. moderate & slow, but certain, warm & stimulating cathartic, operates on colon & rectum, hence used as an emmenagogue. Abused in habitual costiveness — but apt to produce piles, some deny its latter property. In splenetis, aloes is recommend —. Pills best form. Dose gr X — XV.

Pulvis Aloes cum Canella — 4 of former to 1 of latter, or Hiera Picra, Dose gr X to ℥j. Pulvis Aloes cum Guiaco.

Senna. leaves w/ pods, of Cassia Senna. from Alexandria, 2 or 3 others kinds are mingled — Tripoli inferior. leaves longer of

2) C Obtusifolium; fruit v. ckly well. prin — solub — water & alcohol. given in fever. Dose ℈j to ℥j in powder, in infusion, shd be used soon

Jalap combined with Cremor Tartar is the remedy chiefly used in the Morbus Coxarius, when long continued purging is requisite. Dose \ calomel & Jalap aa gr x.

after made & covered vessel. Lo-prest aromatics shd be added, Manna may be added - or alkaline salts. Senna leaves ℥vj, Rhennae ℥ij - Coriam - ℥j - aqua bullientis, ℥vj.
Electuary & Senna & coriander ~~& other~~ laxative fruits, dose, from ℥j - ℥iv.

Cassia Marilandica. Abundantly in Pd - analogous to other, rather weaker than Senna.

Juglans Cathartica, ext & inner bk long used as pop - cathartics -, active but without irritation. & dysentery recommended ext & bary & hine, dose from gr X - XX.

Convolvulus Jalapa. - Florida & Mexico; Transverse slices, thin cuticle, taken to Europe in 1609 - 10. Heavy, sweetish odour & taste, deep brown circles. in powder. active cathartic. combined with ~~calomel~~ or Cremor Tartar. In epilepsy & Rheumatism.
X or XX gr Jalap - ℥ij or ℥iij. Cream Tartar. which also and sub used in bilious fevers. XX gr or XL dose

Tuesday. May 22nd. 1827. 5. p.m. - - - -

Podophyllum Peltatum, analogous to jalap, dose same as Jalap. collected November. leaves poisonous.

Scammony. Convolvulus Scammonia Syria Cochin China; Aleppo best comes. Juices flows from cut plants, adulterat – wh juice leaves flour &c. Import: from Aleppo & Smyrna former best: gd is light friable & like Honeycomb, heavy odour, bitter taste, blackish grey, C. Gum Resin, soluble partly in alcohol.
Employed by Hippocrates. Drastic purgative. most severe if mucus not present. Seldom prescribed alone, quicken others. Dose gr V–X.

Stalagmitis Cambogioides. Hainan Gamboge, by breaking or wound trees, concretes – pars, rolls but here. In Europe 1654, whole mell little taste, orange colour.
one pt gum, 4 resin. drastic Hydragogue opt to sicken stomach, hence in divided doses that be given. In dropsy combined wh Ca Pot. gr ij to ℥ss. In worms given if tænia present.

excellent adjuvant. act on liver wh calomel. Dose grij – vj. Pill best form. Some say gtj – ℥ij water till operates.

Helleborus Niger. Austria Italy rough knotted. blk extr inter whitish fibres ent. acid taste unpleasant smell. Drastic cathartic, in large vomit & even kills. Given in mania by ye ancients. Dose gr X – XX; never given in powder. as an emmenagogue decoct. ℥ij to ℥j.

Cucumis Colocynthis. Africa & Asia fruit round like orange peeled dried & exported. Pulp white light & very bitter, used by Hippocrates. Drastic purge. in Cowdrey's use used. Combined wh calomel & quickens. Dose gr iv – X.

Elaterium. Momordica Elaterium South Europe, Perennial. fruit like cucumber throws out its seed with force (ἐλαύνω). collected before ripe. & juice inspissated. Ext is now — Dr Clutterbuck discovered, juice in-

medicately around seed is powerful juice contains active principle, & it stand a powder nibrides which is the genuine elaterium. In purest elaterium, elater has been found. Elater: in cakes grey, friable & bitter. Long used, violent & painful, sometimes inflames stomach & bowels. Long neglected. Dr Ferriar used it in dropsy. Used as a hydragogue. Dose gr ij, best / give gss & repeat every hr till operate. Excite pulse & produces fever. Elatin dose gr 1/8.

Croton Tiglium. oil from seeds powerful cathartic in mul doses, uncertain betty. Dose gt ss to gtj. best in hernia, sometimes gripes; aromatics or vol oils may be added. Some say the irritation is produced by the coring of the seed. A tinct: may be made. The oil best given in pills made with bread, gt ss at a dose & repeat.

Mineral Cathartics.

Sulphur. Find near volcanos pretty pure, best from Sicily & Naples. Obtained from pyrites, melted in rolls. Sublime

is pure, yellow colour no smell, insoluble in alcohol & water but in vol & fixed oils. Gentle laxative in dose \ teaspoonful, given c piles &c habitual costiveness. pastic – Sulphur & cream Tart are Good c chronic rheumatism, beneficial, acts also on skin in this case: Hence useful in cutaneous affections. Externally cures itch, herpes &c, tinea capitis &c. ointment best form. Sulphuret \ Potash solution ℥ij in ℔j \ water.
Sulphur Precipitatum, an acid to Sulphuret \ Potash. See Sulphuris, hydrate \ Sulphur. Recently Sulphur has been used in vapour.

Magnesia. Abundantly c nat. from Sulp: Magnes: add carbon \ Soda or Potash. Introduced by Count Palma. – Carbonate \ M mild aperient, in gout dyspepsia &c when acidity present. Dose ℥ij for adult. a teaspoon to child \ 2yr.. carbonic acid is disengaged. c Magnesia Lyter, by heating Carbonate. Dose rather less. in diseases \ children combined wh rhubarb, or sulphur take in Seltzer

water, becomes soluble. Sometimes Purgues - Intestinal operate \ no acid present

Neutral salts - hydragogues, between laxatives & cathartics. Excellent in febrile diseases to diminish excitement.

Sulphate of Soda. Procured from ye bittern \ sea water, by the action of cold.

Sulphate of Magnesia. from the bittern of seawater

Sulphate of Potash.

Super Tartrate of Potash.

Tartrate of Potash.

Tartrate of Potash & Soda, or Rochelle Salts.

Phosphate of Soda.

℞ Calomel; or sub-muriate, or rather Proto-chloride of mercury, formed by triturating corrosive Sublimate sub Mercury & subliming twice. It is white, heavy, tastless, & insoluble in water, & semi-transparent. Incompatible are alkalies, lime-water, soaps sulphurets Potass & antimony, & lead iron & copper. It is an excellent purgative, but is generally given in combination with vegetable cathartics. Infants bear larger proportionate doses than adults. Dose as an alterative grs to grj night & morning. as a purgative from grij to gr xv & xx. Precipitated Calomel is made by precipitating a solution of nitrate of mercury by muriate of Soda, it generally contains a small quantity of sub-nitrate.

Tuesday. May 29. 1827.

Enemata. Substances thrown into rectum, or glysters, warm water & molasses are a mild injection, salt may be added. A stimulating injection of Spt Terebinth: may be given in low diseases; Asafoetida and more powerfully the infusion of ℥j Tobacco to oj - 1/2 at a time. Suppository. any solid introduced into the rectum. Enemata best where stomach is irritable. Laudanum arrests the operation, ℥j may be given.

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Diaphoretics.

Such medicines as increase cutaneous perspiration; whether insensible or not. Some medicines wet thought to increase the fluid discharge hence called sudorifics. Much as to modus operendi; but nervous so that one explanation will not answer; constitution exists in fever, if it be removed, diaphoresis will arise, hence mul clones & enetics, & ablutions w/ cold or warm water. Other medicines may act on secretories of skin, as citrate of Potash,

Sometimes, skin is dry & cold, here stimulants will produce diaphoresis, as mesereon, carbonate of ammonia, combination often increases their effects.
used in many diseases, remove heat & dry surface, wh exacerbates the symptoms; also deplete from bld vessels; hence used in every form & fever thought. the articles vary, according to state & system. They abstract the blood from internal parts, & direct it & perhaps nervous energy to surface, hence in dysentery Peritonitis &c.

They excite absorbents, hence sometimes used in dropsy. Quarrion in chronic rheumatism from alterative effect on smaller vessels. If copious perspiration be wished, the patient must be well covered in bed not exposing his arms, & wearing flannel. When pulse strong, diaphoretics must be preceded by purges. The sweating shd be promoted by diluents, but no bleeding or purging.

Saline draught, by saturating salt & Tartar wh lemon juice. aq ℥ij, Soc Sin ℥ij, Sol Tartar ℈ ss. a tablespoonful every two or three hours

Nitre is generally brought from India.

often given in effervescence, ℥j Sal Tart, in ℥iv aq ℥ss of Suc Limon, in cup added to equal quantity. Upon mixing an effervescence arises. The Bi carbonate of Potass may be used. In nakeness & vomiting of autumnal fevers it operates well. To increase diaphoresis wine, ℥ss Nit Pot, or Tinct opii may be added, vinegar may be substituted.

Acetate of Ammonia chiefly used in solution in Spt Mindereri, saturate carbonate of Amm w/ vinegar. ℥ss may be given every hour or two. May be joined with saline drought

Citrate of Ammonia, may be made by substituting carbonate of Ammonia, & adding Suc: Limonis. We should use Carbonate of Ammonia, only where excitement is needed.

Nitrate of Potass. Decaying vegetable matter, & animal matter are mixed, exposed to the action of air without moisture, decomposition & nitrate of Potass is the result. Also obtained from natural sources, in old cities &c. Nitre doubtful if dia-

Friday. June 1st. 1827.—.

phoretic; but excellent febrifuge; moderates the force & circulation, by acting on heart & arteries, hence called refrigerant. Combined wh Tartar emetic, & Calomel, Nitrous powder. Nit Pot ℥ij Calomel gr xij, Tartar emetic grij, divid in pulv viij. Dose ℥ij to ℥iv, divided into small doses & frequently repeated. The crystals are six-sided prisms wh usually dihedral summits. It is used as a gargle in inflammation of the tonsils. Dose gr x – xv –

Tartarized antimony is diaphoretic, Dose gr 1/8 to 1/4 evy 2 or 3 hours operates powerfully given in unstable stomachs

Spiritus Aetheris Nitrosi, By distilling alcohol & Nitric acid; it is a mixture of Nitrous Aether, alcohol & Nitric acid. Highly stimulant alone, refrigerant wh water, hence useful in fevers & debility; Mix wh water balm tea &c. Dose gtt xxx to ℥ij. Decomposed on exposure to air.

Ipecacuanha wh opium & sulphate of Potash, most powerful diaphoretic

Opium excites, & Specac relaxes the skin. Dose
\ Specac alone is grs - ℥ss - \ Dovers Powder gr X
Laudanum & antimonial wine, may be given
Lau gtt XX to gtt XXX ant-wine. Dovers Powder shd
not be given if inh action.

Eupatorium Perfoliatum.

2 – 5 ft. grows in meadows, bitter, vomits &
purges in large doses; given in infusion oij
aq bul – on ℥ss \ leaves close a wine glassful.
It is useful by vomiting, in catarrhs &c. Given
in Remittents Rheumatism. Dose gr X – XL.

Asclepias decumbens. Native
of Ga S. bitter taste, yields to boiling water
decoction long used in colds &c. Said to be
tonic & diaphoretic. Decoction preferred.

Guaicum Officinale. Tree
in Jamaica & St Domingo, wood & resin em-
ployed, no smell if not heated, virtues on
peculiar principle. Wood is used in decoc-
tion as an adjunct. Guaicum by incision in
trunk, hardens, sawing wood forms hole

& heating, fragrant odour, pungent \ swallowed greenish brown; powder grey at first. G— is a substance sui generis. alcohol — 95 parts in a hundred. Min— acids decompose. Stimulant diaphoretic, purgative in large doses. Introduced — 1508. Useful in second Syphilis, Scrophula & chronic Rheumatism. Guaicum often in rheumatism combined wh nitre & Dovers powder, G— gr X. Nit gr X — op — & Pyrar. If body warm it sweats. Dose gr XV — XX in pill or emulsion, repeated several times. Tinctures, simple & volatile prepared wh aromatics \ ammonia. Tincture Guaici, & Tinc. G— ammoniata, which is wh used Dose ℥j in milk 4 times a day.

Daphne Mezereum. shrubby plant in Spain Germany &c, inner bark \ root. very pungent vesicate, produces flow \ saliva, c over dose poisons. once a remedy for Syphilis. only used in compound decoction \ Sarsaparilla. ℥ss \ bark wh

℥ss ℞ Liquorice root, in oij aq boil to a pint - dose a wine glassful 3 times a day. In Secondary Syphilis,

Laurus Sassafras. a stimulating diaphoretic; bark ℞ root most powerful. Essential oil in the plant, to this its aroma is owing. pleasant addition to veg - decoctions. Decoction injures it.

Smilax Sarsaparilla. Root ℞ it; grows in S America & the U.S. Root long slender, brown wrinkled bark no mucilaginous taste. Decoction used in - Some very wert. Introduced as remedy ℞ Lues venerea. Used in secondary Syphilis. Used in compound decoct - ℞ Sarsaparilla is made by. ℥iv ℞ Sarsaparilla in 2 qts ℞ water to 1 qt, add Sassafras root, Guaiacum wood liquorice root aa ℥ss, Mezereon bark ℥ss - boil a quarter ℞ an hour & strain, Dose ℥iv to ℥j.

Juniperus Sabina leaves grows in South

Camphor, powerful stimulant, emmenagogue, & diaphoretic. Dose grxij – xv – rare from grv – x

Diuretics.

Those that increase secretion urine. Some enter circulation & stimulate the kidneys; they may be found in the urine, some deny it. 2nd by extension of impression on stomach by sympathy on kidneys as squill. an article may act in both these methods 3rd. Some articles promote absorption, fluid must be eliminated, generally by the kidneys, those in Digitalis & calomel. Kidneys acted upon in other ways, it is opposed to perspiration, hence surface cool & dry. Hence many are diaphoretics & diuretics. The same as to purging & diuresis, hence not use active cathartics when give diuretics. Diluents promote diuresis; if warm & skin warm they are diaphoretic. Cold water w/ a vegetable acid may be given. Drink

is given in dropsy to assist diuretics. All stimulants increase the urinary discharge; gin is famous, by stimulation & essential oil; you get increased circulation diminishes the urine. Hence bleeding & purging must be premised if there be inflammation. Mental exertions increase urine, hence fear anxiety. Diuretics given chiefly in dropsy; in nephritic diseases employed; they diminish excitement, but are uncertain remedies.

Particular Diuretics.

Sub-carbonate of Potash, or salt of Tartar; the ashes of plants owe their virtues to it. It is absorbed & passes to the kidneys. It is apt to injure the stomach & is best where acidity is present. It is prepared by heating the Cream of Tartar. Dose is gr X – XXX, 3 or 4 times a day. In Seltzer water it forms the bi-carbonate of potash which is less unpleasant. The sub-carbonate of Soda is chiefly used in Nephritic affections & has the same qualities.

Acetate of Potash or Sal diuretic; at present little used; best in dyspeptic cases. dose ℈j — ʒss every hour or two.

Tartrate of Potash. Soluble Tartar, not much used. Dose ʒj several in a day.

Super-Tartrate of Potash. Cream of Tartar. The best saline diuretic. ℥ss to ℥j may be given in a day dissolved in a large quantity of water. ℔j of water dissolves ℥j. Best in febrile dropsy.

Nitrate of Potash. Cool sharp taste, it should be given in cold water. Dose gr X — XV repeated seldom trust to it alone, best when fever is present. Nitre taken by mistake for Glauber's Salts has produced vomiting, hypercathersis, with bloody stools & death; Sugar & water shd be mallowed, then opium & aromatics.

Spiritus Nitri Dulcis. as an adjuvant good it relieves flatulence. Dose ℥ss — ʒj. Dr Chapman says ℥ss.

Vegetable Diuretics.

Scilla Maritima, Squill grows on the sandy shores of the mediterranean; the root is used, it is a large bulb loses 4/5 of its weight when dried, by keeping its powers are impaired. The test of its quality is its power of nauseating. A moderate dose among our best diuretics. Dose gr j — iij, 3 times a day, not much nausea shd be produced. Much used in dropsy, particularly hydrothorax & ascites, combined wh calomel. gr ij Scillae: gr j Calom, in sep-pills 3 times a day; mercury not be discontinued — mouth sore. Acetum Scillae, oxymel & syrup only used as expectorants.

Colchicum Autumnale. Meadow Saffron grows in Europe. Juice is acid & excoriates the fingers it is a solid bulb. Nauseous, acid taste. Shd be dug just before 2nd growth. Rarely used as a diuretic, chiefly as a remedy in gout.

Eau Medecinale supposed composed it. Narcotic & purges sometimes. The saturated vinous tincture is used dose gtt XXX — LX morning & night. It also is used in Rheumatism best where pain is shifting. Some prefer Tr opsed dose is the same.

Digitalis Purpurea. Fox glove bears a purple flower cultivated in our gardens. The leaves are used in medicine they should be collected when the plant is in flower, the mid-rib & petiole rejected; they shd be preserved whole. Dr has a bitter taste. Water & alcohol extract their virtues. Narcotic & diuretic. It operates on ye absorbents, & unless effusion has no effects. In large doses it prostrates the strength & diminishes the frequency of the pulse, particularly in a recumbent posture. It may accumulate in the system & suddenly show its effects, hence caution is necessary. Given in substance dose gr j morn & night. Infusion made by ℥viij aquae to ℥j fol ℥ij.

with ℥j Spt Cinnam: Dose ℥ß twice a day.
Tincture dose is gt X – XV. Its effects continue long.

Nicotiana Tabacum. Tobacco acts similarly to digitalis, though inferior & unpleasant. Infusion \ leaves used. ℥j to ℔j aq – Dose ℥ß.

Apium Petroselinum. Parsley

Leontodon Taraxacum. Dandelion

Juniperus Communis. Berries of the Juniper.

Daucus Carota. Seeds - wild Carrot are used in strangury & nephritis

Erigeron ~~Flatea~~ ~~a~~phyllum. Scabrous, Skevish. stem & herb used in infusion

Chimaphylla Umbellata. Pipsipsewa or winter green, grows woods - U.S. Tonic diuretic, used in Scrophula.

Copaifera Officinalis. Balsam of Copaiba. Tree grows in S America, incisions are made & juice flows out, becomes more concrete on exposure, & has a resinous consistence

Pinus Larix. Venice Turpentine. all pinus yield turpentine. consist of resin & essential oil. they are diuretics in large doses purgative dose gr X – ʒj. purgative ℥ss to ʒij.

Cantharides. Cantharis vesicatoria

Expectorants

Medicines that increase the flow of mucus from lungs. They act in several ways. 1st may relax contract from vessels \ lungs. 2nd Promote absorption. 3rd may act as direct stimulants \ exhalents \ lungs. may also act as tonic & stimulate enfeebled vessels. There are different states \ system in wh they are given. they lungs may be excited, or oppressed by debility \ vessels. Emetics are generally expectorant. Mild expectorants are given \ catarrh, hooping cough &c. Stimulating expectorants in old people in Peripneumonia Notha, Catarrhus Nothus &c.

Tartarized antimony good expectorant — dose \ 1/8 or 1/6 gr.

Ipecacuanha, in dose gr 1/2 or gj.

Scilla Maritima wh given in chronic catarrh & in Hepatitis cases \ latter combined wh antimony. The former wh Gum

Ammoniac.

Allium Sativum Garlic similar
Squill sub used in croup & children. syrup
may be made, juice often given & onion juice
sometimes substituted in Cellulitis tonsilisgd.

Polygala Senega. Seneca Snake root.
Root used contorted ½ the ash colour back
sweet taste soon pungent & hot. Virtues & bark
& root. Hot water partly its virtues. Stimulant
expectorant diuretic, emetic & cathartic & large
doses. acts on absorbents, used in Hydrothorax
employed by Dr Tennant. Used where no inflam-
mation, particularly in chronic catarrhs.
B. Recommended & croup, as an adjuvant.
decoct. ℥j rad Sen cont & oj – ofs dose
half wine glass. Honey may be added. Dose
& powder gr X–XX. Cope's Tinct Syrup & first
stage & croup, & often checked. ℥iv Sen, Seil
℥iv & aq ℔iv – ℔ij. hellis lbj boil – ℔iij then

add Tart. ant gr j to ℥j, Dose as emetic in 1 year child ℥j. often repeated.

Arum Triphyllum. Indian Turnip root bulb, acid when fresh severe mouth-pain in mouth, sliced root lep acid. in protracted catarrhs &c, substitute best. Dose gr xx–xxx.

Ammoniacum. North African & E Indies. Heracleum Gummiferum. in large masses in tears. pec odour nauseous taste. tear brittle white within. Partly soluble in water & alcohol excellent expectorant. Mh prescribed in consumption & chronic catarrhs in emulsion. Nitric acid has been combined. Dose gr x often repeated. used as a plaster,

Asafoetida. often described expectorant, given in emulsion spasmodic coughs, chronic catarrhs &c. Dose gr x–xx.

Myrrha. Gum Resin. unknown plant. brt in chest, brownish red colour, warm pungent taste, fragrant well brittle. Tonic expectorant. Dose gr x–xx.

Balsams. Resin essential oil & Benzoic acid compose them. heating.

Balsamum Tolutifera. Juice concrete form Balsam Tolu. Reddish brown tenacious or solid melts & exposed to heat. soluble in alcohol. in substance or Tr. Dose in sub. gr XV – XXX. Tr gt XV – XX. Syrup sometimes used to give flavour to other remedies.

Myroxylon Peruifera.
Balsam & Peru. Equides, & by boiling twigs. tenacious reddish brown colour.
Dose gr X – XX.

Styrax Benzoin. Sumatra.
Benzoin & Resin & Benzoic acid.

Vapours inhaled often give relief in constricted lungs. Ether & deleterious is added, dangerous sometimes.

Hoffman's Anodyne wb equal pts & Laudanum & catechu & nutrits.
Camphor relieves colds & head &c. Zent & Rosin fumes used in consumption. Vapours

\ten used, smoke \Tobacco or Stramonium. Medy inhaler or a tea pot are the best instruments.

Emmenagogues.

Not enter into practical details: not state causes of \menstruation. Menses peculiar secretion. necessary / health \female, interrupted \not occur at proper period: some think specific others deny it. aloes rectum cantharides & Turpentine bladder, Hence tonics often used in debility. Pennyroyal of advantage. Constipation often cause hence purgatives. May be excited state hence bleeding & useful.

Aloes. get affinity for rectum hence peculiar efficacy as an emmenagogue. often combd wh myrh & iron. Sab-carb-Potass enter. Hiera Picra. Aloes & canella ~~aloes~~

Hellebores Niger. used in substance, Tinct. Melanpodii dose gtXX-XL. Dr Chapman best when purges. Dr Eberle uncomfected with cathaisis.

Friday June 15. 1827. =

Rubia Tinctorum Madder Perennial plant. root long & red ground & forms madder. properties to water, enters circulation. Sub extolled by some, some deny its use. Dose ℥ss.

Romarinus officinalis. Rosemary. Native of Europe, aromatic, essential oil. warm stimulant sub used in domest pract given c infus or vinous ℞.

Mentha Pulegium. Pennyroyal. Favorite of old women; warm & aromatic not specific not higher than others. tea or oil used.

Polygala Senega, used by some as an Emmen — Dr Hartshorne used it, in decay Dr Chapman ℥j to oj aq — reduced to ⅛, ℥ss c day, at period & increase it.

Sabine. Powerfully stimulant. used to procure abortion; hyperco to promote contract of uterus. not given if excitement. Dose gr X or XV.

Tinct Cantharides, has been used as an emmenagogue.

Secale cornutum. Ergot. Powerful influence on uterus, long slender grains found in husk \ rye. Parasitic plant. Acts specifically producing contractions of the uterus. In cats produces abortion. Dose gr XX. repeated to ℥j.

Vol: Tinct: Guioci. More advantage than any other; recommended by Dr Dewees; dose f℥j.—

Aqua Ammonia has been injected into the vagina; with good effect.

Anthelmintics

Medicines \ destroy or expel worms from the body. Some deny them as a class. Not describe worms or symptoms. Vermifuges poison the worms. Then digested or expelled. Some act mechanically; not probable that it is so. Purges often anthelmintic. Common \ give them often other kinds.

Calomel, one ofbest, may have a power besides its purgative effects.

Dose for child gr vi - gr ij

Tonics, are often useful in removing the weakness of the alimentary canal, & hence also worms.

Spigelia marilandica. Pink root. Perennial root, fibrous yellow becomes dark. Root most powerful. Purgative & narcotic. Anthelmintic by Cherokees. Root powder gr x - to a child of 3 yrs. Combined with calomel. Decoct boil ℥ij in ℔ij - wine glassfull

Melia Azedarach. grows in U.S. Pride of China. Beautiful tree. brought from Japan or East. Bark ℥iv boiled in ℔ij to ℔j - wineglass every two or three hours.

Chenopodium anthelmintum. Seeds chiefly used. Called wormseed, fresh juice ℥ss. Seeds dose gr xx - xxx. Essential oil has its virtues dose gt vj or viij

Dose repeated. Smell disagreeable.

Geoffroya Inermis. Cabbage tree. Bark smooth: disagreeable smell mucilaginous taste. In powder or decoction ℥j \ bent in ℥ij aq Dose \ powder XX – XXX gr. Opt gr iij or iv. Decoct wine glass. purges, narcotic in large doses. Hence not much used here.

Dolichos Pruriens. Cow-hage is a climbing plant, pod 4 or 5 inches long. Stiff hairs get in fingers sting & itch anthelmintic stomach, prick worms. Best / dep pods in syrup or molasses – teaspoonful morn & evening for child of two or three years.

Artemisia Santonica. Wormwood. Native of Persia, cultivated in Europe. not much used here.

Polypodium Filix Mas. Male fern Root by ancients used as a remedy in taenia. Root inodorous, sweetish slightly bitter taste. used by Mad. Vouffleers. Dose ℥j – ℥iij.

Oleum Terebinthinae. Oil of Turpentine In large doses ℥j – ℥iij to purge; give a dose

Tuesday. June. 19th. 1827. —

Castor oil. not operate. give whole at once. less apt to irritate urinary passages. large doses.

Stannum. Tin is used both ~~used~~ in filings & powder; dose some say ʒj-ʒij others more, give a morning & then cathartic. hydrogen some think is evolved; but physiologists suppose it poisonous & worms. Amalgam of Tin & Mercury has been used.

Cedar apple. Fungous excrescence on cedar trees, in some cases very efficacious, though useless others. Dose gr x-xx several times a day. Bitter & astringent.

Antacids.

Acids often formed in stomach & bowels from fermentation or diseased secretion. very distressing the acid is not known. Prescribe alkalies to neutralize the acid chiefly used in dyspepsia, diarrhoea &c. only palliatives but valuable.

Carbonates of Potash. milder than pure alkali. Sub-carbonate in salts

of Tartar. dose various gr XV – XX at once. gener
combined wh others, as bitter infusions to act
as tonic. ℞ Physick gt Kirkony ashes ℥ij
aquae, subside clear liquor, ½ tea-cup full of root
also. Bi carbonate also used
tho affords more gas than the other.

Sub carbonate of Soda. ob-
tained from barilla, & common salt, by ~~converting into sulphate of soda~~ heating with charcoal
& ~~sub carb potash~~. Resembles Carb. Potash. Sub
Carb Potash deliquesces, sub. carb. Sodae effloresces.

Bi carbonate of Soda, analogous to Potash – twice as much as other
salts may be given.

Ammonia, exists in gas. Heat,
lime & muriate of Ammonia. absorbed
by water & forms Aqua Ammonia.
Highly stimulating hence in spasmodic
dose gt XX – XXX.

Spt Ammoniae Aromaticus.
alcohol wh gas & essential oils. greater

c flatulence & acidity. Dose gtt xv – xxx.

Ob: Ammonia treated under stimulants.

Lime in aqua Calcis. 1/400 to 1/800 pt, when cold takes up most. Converted into a carbonate on exposure. Tonic besides antacid; against nausea mixed milk ℥ß of each. astringent joined after. Cart

Carbonate of Lime. Creta. Preparata pure chalk levigated; Testa ostreaceum; Cancrorum Testae ppt. rather milder than chalk. Dr Parish prefers them. Carbonas Calcis, used mch in diarrhoea in julep. Dose ℥j or ℥ij generally in smaller quantities

Magnesia, Caustic & carbonate both used where costiveness attends acidity.

Antilithics.

Remedies entering circulation & dissolving stone c bladder once called Lithontryptics not now believed to exist.

Composition of stone various: chemical nature unknown. Attempts to inject solvents into bladder. Able often to alleviate symptoms. Done by solution of stone, & by correcting lithic diathesis. Medicines that correct it are antilithics, various in various states. Where excessive food & debilitate, lithic acid secreted best antilithics are alkalies & bitters.
In another condition phosphates of lime, & magnesia & ammonia, is formed, calculi formed & nephritis produced. Irritable state of nerves & mechanical injuries generally bring it on. Mineral acids here most useful.

Carbonates of Potash & Soda & carbonate & calcined magnesia the dose of latter is gr XV or XX, some prefer it to the others.

Lime water used in ℥t daily. Limestone water or sub-carbonate of lime.

N Mineral acids are sulphuric, nitric, & muriatic, vegetable tonics rub used.

Friday. June 22nd. 1827. = 5 o'clock P.M —

Arbutus Uva Ursi. Bear-berry.
native N. north & Europe & U.S. creeping plant
leaves collected in autumn disagreeable at
first. water & alcohol extracts virtues.
Tonic astringent & diuretic. In catarrh
bladder & nephritis, ~~U. U.~~ not used.
Also in diabetes. Powder dose ℈j 3or 4 times
day more or less. Decoct bitter, ℥ss to ℥j aqua.

Demulcents.

Gums or mixtures of gum saccharine & oleaginous
matters; serve to sheathe mucous surfaces. Thus
in catarrh cover tender surface: in dysentery,
poisoning &c also in urinary complaints, gonor-
rhea, strangury &c. They may positively relieve
diseased action as dysentery; no reason why
not allow them this power of shielding mucous
tissues. In catarrhs & Physick thrs acts thro
stomach. Several demulcents used as
media for suspension of solids, as gum ara-
bic, &c.

Acacia vera yields best Gum Arabic, called also Mimosa Nilotica; bright from Egypt & Barbary. Irregul. pieces semi-transparent; insipid, soluble in water. Gum Senegal inferior, from 2 trees on coast of africa; East India bad & impure gum. Used in pectoral mixtures & vehicle for suspending solids. Used in nephritis & catarrh.

Astragalus Tragacantha Tragacanth gum.

Inodorous, little taste worm like pieces whitish colour, not altogether soluble in water; very viscid mixtures are formed with it resembles the gum of cherry or cerasin.

Ulmus Fulva, Slippery Elm. inner barks: grows in U. S. demulcent in urinary diseases, dysentery &c. Form a poultice, equal to bread & milk.

Sem: Lini: Usitatissimi.

Expressed mucilage by decoction; sugar & lemon juice may be added. ℥j infus in ℔j aq — meal is used as a cataplasm.

Quince seeds, & pith of Sassafras afford mild mucilages

Althea officinalis. Marsh-mallow Europe. root much mucilage purer than Flax-seed; roots may be used as cataplasms.

Glycyrrhiza Glabra, Liquorice root

Root dug when 3 yr old. sweet, mucilaginous leaves a bitter taste. Gum & sugar used as an adjuvant. powdered root & keep pills. Ext Glycyrh: Liquorice extrs.

boiled root & evaporated, used in cough mixtures. Lozenges made from it with opium.

Lichen Islandicus - Iceland moss. Iceland North of Europe. Bitter, mucilaginous taste, decoction is demulcent; nutritious; useful in dyspepsia & consumption, maceration of cold water removes its bitterness.

Farinaceous substances -

Cycas Circinalis; Sago Tree in Borneo &c; much cultivated -

at 14 or 15 yrs, much medulla - trunk; it is extracted, powdered, washed & separated; dried, granulated for commerce. Long boiling is necessary to prepare it.

Tapioca - from Jatropha Manihot. Larger grains, similar / Sago; prepared from Cassada plant. grows in West-Indies. one varieties contains a poisonous juice. Tapioca obtained by maceration &c. Much used in fevers.

Arrow-root. a fine white powder obtained from Maranta Arundinacea, cultivated in W. Indies; grows in East Indies. Mch used - bowel complaints. For infants used. Ful quantity of meal from boiling water on paste made with cold.

Hordeum - Barley. prepared in same manner by boiling grains. pearl barley found in shops; common grain best.

Tuesday. June 26th. 1827 = —

External applications.

Many substances excite inflammation of skin, from itching to intolerable pain. called Rubefacients; when much inflammation serum is lodged beneath cuticle, some articles produce it wh lessens inflammation than rubefacients; the other called epispastics. Many Rubefacients produce only increased perspiration; epispastic may always acts as rubefacients. Some destroy life of part & produce sloughing - called Caustics. Hence 3 classes.

Epispastics.

When applied skin produces inflammation, then increased secretion wh relieves the vessels. Not entirely fully operative.

1st. Produce general stimulation, excite circulation & heat skin; produced by rubefacient operations; hence used in typhus & cases of prostration. blisters often not drawn or produce gangrene - low cases

apply to inside of thigh, humerus, or side. Let them on for that time. 2nd. produce powerful shock & interrupt morbid action, & allows disease to terminate, hence in remittents during remission, same effect in intermittents.
3rd. Often compose nervous system, fix attention & prevent agitation important indication in typhus mitior &c. 4th. remove local affections by establishment of artificial disease; chronic headache & Ophthalmia. more powerful when near disease, thus in pleurisy, Hepatitis &c, shd not be used till after depletion. On same principle in cobi & cholera, thus in nausea & vomiting. sinapisms generally preferable in such cases. 5th In certain affections of skin, blisters very useful operate on same tissue as disease, in erysipelas, gangrene &c. 6th Blisters deplete - generally underrate their depletory power, serum is highly animalized - lofs serum may be more depletory than of blood.

7th Sometimes used in dropsy, but disadvantageous.
8th. The pain of blisters may produce good effects, in hypochondria — B-are among our most important remedies. — Particular Epispastics.

Cantharis vesicatoria. Melo vesicatoria. Cantharides, Spanish Flies. Spain Italy, France &c lives on ash alder &c. 2/3 inch long 1/4 broad. Green golden colour, fetid odour, when alive air is irritating in neighbourhood. Smoked with brimstone, boiling vinegar. Dried - retained properties very long. Can Swieten preserved 30 yrs. but worm eat inactive pts. Thin - Spot in damp place - melolontha vitis found with them inactive. Italy largest flies. activity to water & alcohol - Cantharidin obtained from them, sol in hot alcohol, water, ether oils; powerful application in oil. — Of — Prep — Blistering plaster. Mutton suet, wax & white resin mixed with finely powdered flies, may sprinkle powdered cantharides — Comp -

Friday. July 6th. 1827. = Feb – absent two lecture-days. =

Blistering Plaster, mustard, Burgundy pitch added - Blistering ointment, Basilicon & pulv cantha - warming plaster make great - flies often used to counter - Phthisis - - under diuretics spoken - Externally has a determination urinary passages, & may produce strangury, worse after draws, sub pain & desire to pass urine, increase pain - back along meter; rectum sometimes affected & tenesmus produce. Generally subside, relief often demanded - most effectual measures demanded -

= When strangury apprehended, mucilaginous fluids shd be given, plaster removed when acts as rubefacient, & apply bread & milk poultice. Same plan when strangury present, diuretics inf also as parsley tea, anodyne injection is most efficient remedy. Camphor has been recommended. Large blisters little more pain sub more effic - than small - large as convenient, to fit part as well as possible hair shaven, head ten hrs before applying

blister. Some wet skin with vinegar, thin gauze has been interposed, with benefit. Should remain till vesicate thoroughly, 12 hrs enough, 24 for bed-ridden sooner in children. cuticle clipped serum shd escape; the albumen sometimes coagulates, simple cerate if heal, basilicon if keep up irritation. sometimes not heal readily, bread & milk w/ Laudanum; Goulard's Cerate is excellent. Blistering or savine ointment keep open.

Lytta Vittata. Potatoe Fly. Next to Cantharides, Dr Chapman of Bucks Co introduced it. Resides on Potatoe, July & August. numbers not uniform, Resembles cantharis in form, not in size or colour, red head. shake from vine to hot water & dry. Rather more speedily vesicates than Cantharis.

Melloe Niger.

equal to Cantharides, says Dr Woodhouse. found in East, Blk & Mol.

Euphorbium - Eup Off

N of Africa. emetic & cathartic, powerful operation. enrine producing gt discharge. used only by farrier. ~~Daphne Mezereum~~

Daphne Mezereon. the inner bark is highly irritating; chewed out powerfully - or bathing cured patient of paralysis of throat.

Ranunculus Bulbosus.

Butter cup. Europe & America. root or leaves rub pain on skin vesicates in few hours. country people use it.

Rubefacients.

Not confine action to product - of inflammation under one cause perspiration. Some blister as mustard. some never rub redness of skin. never used as depleting remedies. Principles same as epispectics. when powerful per- men blisters necess - where milder rubefacients necessary in low fevers, cholera syncope, convulsions & pain - first instance. Blisters subvert morbid associations bet-

Act. in local effects general analogy - active rubs to spasmodic disease, blisters to permanent inflammation. where long continued & gentle, rubefacients preferable. Rubefacients seldom used to substitute their own operation; cannot be employed to deplete. Pain more than blisters.

Sinapis - Alba et Nigra. Mustard. native of Europe, cultivated here; seeds prepared for flour. Stimulants, emetic, laxative & diuretic - may be given whole in weakness of digestive organs. Dose tablespoonful twice a day - taken in water. Bruised stimulant emetic ℥j. in drops. Rheumatism. Mustard whey good made ℥ss \ Sem - c pulle ℥j -. Cataplasm produces rubefaction in 1/2 hr or one hr. fiery red surface sometimes red. Vesication more painful than of Cantharides. Gangrene sometimes ensues. rye-meal shd be added. The skin shd be oiled before applying plaster. In cases of gr prostration excellent. used in convulsions. in cholera over stomach.

July. 9th. 1827 — Tuesday =

Capsicum Annuum - Cayenne Pepper, used in low states of fever apply by friction in spirituous decoction. In coldness of feet, sprinkle in socks. Gargle in sore throat. Use in prolapsus ani.

Oleum Terebinthinae. Oil of Turpentine heated & applied by friction flannels wet wh it cause irritation; preferable to blisters some times in certain cases. used as liniment in rheumatism Decoction wh Cantharides very powerful

Resina Abietis Pini. Pin Norway spruce fir, juice concrete from incisions, boiled melted & strained. Fresh odour & taste, brittle, reddish yellow. Retty tenacious. counterfeit more friable & produces inflam & worse discharges, but not raise cuticle, hence in chronic diseases useful. rheumatism sciatica &c.

Allii C & S. Radices contus. used sometimes

Camphor in liniment used
Opodeldoc alcohol, camphor, oil of Rosemary.
Aqua Ammoniae, general-
diluted one pt to — 8 pts Ol: olivae; good
in chronic rheumatism. In plaster am-
monia used. Lead plaster with Sal
ammoniac; mutual decomposition am-
monia liberated; renew in 24 hrs. Ammonia
is added to opodeldoc sometimes.

Tart: Antimony. Specific
eruption painful, useful in pectoral affections,
sprinkle on sticking plaster, or ointment ℥j
to ℥ij Cerat: simp: on in solution. Continue
2 or 3 days: pain severe. Pustular disease of-
ten relieves dyspeptic affections. Dr Jenner used
it often. Essential have it to a cer-
tain extent. Spice plaster useful, Caryoph:
Cinnam: Pipe: niger; Dr wh honey & vinegar

Escharotics.

stimulate too much, or decompose animal matter used for issue, subvert action by destroying part.

Heat or actual cautery, piece of hot iron, prevents haemorrhage in mouth; used by French extensively. Moxa used in Eastern countries & in France: in painful diseases: produce rubefacient, blister, or eschar.

Potassa Pura. boil vol. of sub. carb soda lime, strain & evaporate, would melted potass in sticks. Causticum Commune accessium. Lime may be added forms a milder preparation. Deliquesces readily. used to form issue; blister & lab caustic on denuded surface, or wound stim severe burning pain felt; poultice & not let it heal. used in local disease on principle of revulsion: & by constant discharge. used in opening abscesses. & remove poisoned part as of a rabid dog. Dr Hartshorne used it in tetanus along spine, to produce rubefaction.

Wm Wolgebard — Philada